



PTO/SB/51 (06-03)
 Approved for use through 01/31/2004. OMB 0651-0033
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REISSUE APPLICATION DECLARATION BY THE INVENTOR

Docket Number (Optional)

YOR919940172US6

I hereby declare that:

Each inventor's residence, mailing address and citizenship are stated below next to their name.

I believe the inventors named below to be the original and first inventor(s) of the subject matter which is described and claimed in patent number 6,335,569, granted January 1, 2002, and for which a reissue patent is sought on the invention entitled

SOFT METAL CONDUCTOR AND METHOD OF MAKING

the specification of which

☐ is attached hereto.

☒ was filed on 12/31/03 as reissue application number 10/749,152
 and was amended on _____
 (if applicable)

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

☐ I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b). Attached is form PTO/SB/28 (or equivalent) listing the foreign applications.

I verify believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.)

☒ by reason of a defective specification or drawing.

☒ by reason of the patentee claiming more or less than he had the right to claim in the patent.

☐ by reason of other errors.

At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, such must be stated with an explanation as to the nature of the broadening:

The patentee claimed less than he had the right to claim in not including claims along the lines of newly-presented claims 17-37. This is a broadened reissue. The broadening is directed to:

at least not reciting "... at least one metal selected from the group consisting of Al, Cu and Ag". as recited in independent patent claims 1 and 10. In addition, independent claims 34, 44 and 49 are further broadened by also not reciting "grain sizes larger than 200 nm", as recited in independent patent claim 1, and by not reciting "grain sizes not smaller than about 20% of the thickness of said second metal layer, as recited in independent patent claim 10.

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS
 BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE
 FIRST CLASS MAIL IN AN ENVELOPE AS
 DIRECTED BY THE COMMISSIONER OF PATENTS AND TRADE
 MARKS, WASHINGTON, D.C. 20231, ON

DATE OF DEPOSIT

NAME OF PERSON MAKING DEPOSIT

SIGNATURE AND DATE

PTO/SB/S1 (08-03)

Approved for use through 01/31/2004. OMB 0651-0035

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2)

Docket Number (Optional)
YOR919940172US6

All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant. As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith.

Name(s)	Registration Number	Name(s)	Registration Number
Jay H. Anderson	38,371		
Steven J. Soucar	32,440		
Kris V. Srikrishnan	37,498		

Correspondence Address: Direct all communications about the application to:

☒ Customer Number

32074

Customer Number

OR

☐ Firm or Individual Name

Address

City

State

Zip

Country

Telephone

Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.

Full name of sole or first inventor (given name, family name)

Rajiv V. Joshi

Date

May 4, 2004

Inventor's signature

Rajiv V. Joshi

Residence

Yorktown Heights, NY

Citizenship

India USA (R.V.J)

Mailing Address

1418 Pine Brook Court; Yorktown Heights, New York 10598

Full name of second joint inventor (given name, family name)

Inventor's signature

Date

Residence

Citizenship

Mailing Address

Full name of third joint inventor (given name, family name)

Inventor's signature

Date

Residence

Citizenship

Mailing Address



Additional joint inventors or legal representative(s) are named on separately numbered sheets forms PTO/SB/02A or 02LR attached hereto.



PTO/SB/96 (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: International Business Machines CorporationApplication No./Patent No.: 6,335,569 Filed/Issue Date: January 1, 2002Entitled: SOFT METAL CONDUCTOR AND METHOD OF MAKING
International Business Machines Corporation, a Corporation
 (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.

The extent (by percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 009319 Frame 0423, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
 The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
 The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
 The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

- [] Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

5-5-04
 Date

703-299-1455
 Telephone Number

Lynne D. Anderson, Reg. No. 46,412
 Typed or printed name

Lynne D. Anderson
 Signature

Program Manager, USPTO Liaison
 Title

HEREBY CERTIFY THAT THIS CORRESPONDENCE IS
 BEING DEPOSITED WITH THE UNITED STATES POSTAL
 SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE AD-
 DRESSED TO: COMMISSIONER OF PATENTS AND TRADE
 MARKS, WASHINGTON, D.C. 20231, ON

DATE OF DEPOSIT

NAME OF PERSON MAKING DEPOSIT

SIGNATURE AND DATE

5/7/04
K.C. INQ-MARS
Karen G. Mars 5/7/04



PTO/SB/53 (05-03)

Approved for use through 01/31/2004, OMB 0651-0033
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**REISSUE APPLICATION: CONSENT OF ASSIGNEE;
STATEMENT OF NON-ASSIGNMENT**

Docket Number (Optional)

YOR919940172US6

This is part of the application for a reissue patent based on the original patent identified below.

Name of Patentee(s) Rajiv V. Joshi

Patent Number

6,335,569

Date Patent Issued

January 1, 2002

Title of Invention

SOFT METAL CONDUCTOR AND METHOD OF MAKING

1. ☒ Filed herein is a statement under 37 CFR 3.73(b). (Form PTO/SB/96)2. ☐ Ownership of the patent is in the inventor(s), and no assignment of the patent is in effect.

One of boxes 1 or 2 above must be checked. If multiple assignees, complete this form for each assignee. If box 2 is checked, skip the next entry and go directly to "Name of Assignee".

The written consent of all assignees and inventors owning an undivided interest in the original patent is included in this application for reissue.

The assignee(s) owning an undivided interest in said original patent is/are International Business Machines Corporation
and the assignee(s) consents to the accompanying application for reissue.

Name of assignee/inventor (if not assigned)

International Business Machines Corporation

Signature

Date

5-5-04

Typed or printed name and title of person signing for assignee (if assigned)

Lynne D. Anderson, Reg. No. 46,412
Program Manager, USPTO LiaisonI HEREBY CERTIFY THAT THIS CORRESPONDENCE IS
BEING DEPOSITED WITH THE UNITED STATES POSTAL
SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE AD-
DRESSED TO: COMMISSIONER OF PATENTS AND TRADE
MARKS, WASHINGTON, D.C. 20231, ON 5/7/04

DATE OF DEPOSIT

K.C. AND - MARS

NAME OF PERSON MAKING DEPOSIT

Lynne D. Anderson 5/7/04
SIGNATURE AND DATE



LETTER OF AUTHORITY

I, Gerald Rosenthal, Vice President, Intellectual Property and Licensing of International Business Machines Corporation (IBM), a New York corporation, do hereby delegate the authority to approve and execute documents on behalf of IBM relating to proceedings in the Patent, Trademark Registration or Copyright Offices servicing any country or region of the world, or to related appeal proceedings, including, but not limited to: petitions; powers of Attorney; authorizations; verification; nominations of representatives; declarations; documents relating to maintenance and defense of the resulting industrial property rights; assignments of rights to apply for and acquire patents and trademark registrations; and evidence of such assignments; requests for the registration of patents as available for licensing; reports of inventions and petitions for waiver of patent rights to any department or agency of the United States Government; and, assignments, licenses and other instruments confirmatory of Government rights in patents and inventions, to Lynne D. Anderson. Program Manager, Patent Office Liaison.

Date: April 6, 2004

Gerald Rosenthal
Vice President, Intellectual Property & Licensing
International Business Machines Corporation

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS
BEING DEPOSITED WITH THE UNITED STATES POSTAL
SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE
ADDRESSED TO: COMMISSIONER OF PATENTS AND
TRADEMARKS, WASHINGTON, D.C. 20231, ON 5/7/04
DATE OF DEPOSIT
K. C. INO-MARS
NAME OF PERSON MAKING DEPOSIT
Karen D. Anderson 5/7/04
SIGNATURE AND DATE



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Rajiv V. Joshi

Examiner: Not Yet Assigned

Application No.: 10/749,152

Group Art Unit: Not Yet Assigned

Filed: December 31, 2003

For: SOFT METAL CONDUCTOR AND Date: May 7, 2004
METHOD OF MAKING

ASSOCIATE POWER OF ATTORNEY

The Commissioner for Patents
Mail Stop Missing Parts
P.O. Box 1450
Alexandria, VA 22313

Sir:

Pursuant to 37 C.F.R. § 1.34(b), the undersigned attorney, who is a principal attorney of record in this case, hereby appoints the following persons as associate registered attorneys to be likewise of record in this case:

Joseph P. Abate, Registration No. 30,238;
Lynne D. Anderson, Registration No. 46,412;
Ira D. Blecker, Registration No. 29,894;
Steven Capella, Registration No. 33,086;
Mark F. Chadurjian, Registration No. 30,739;
James Cioffi, Registration No. 51,564;
Harold Huberfeld, Registration No. 26,665;
Todd M. C. Li, Registration No. 45,554;
Anthony N. Magistrale, Registration No. 35,595;
Margaret A. Pepper, Registration No. 45,008;

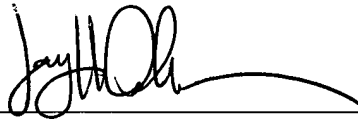
Eugene I. Shkurko, Registration No. 36,678;
Tiffany L. Townsend, Registration No. 43,199; and
Lisa J. Ulrich, Registration No. 45,168;
all of INTERNATIONAL BUSINESS MACHINES CORPORATION
John E. Hoel, Registration No. 26,279;
Christopher A. Hughes, Registration No. 26,914;
Joseph C. Redmond, Jr., Registration No. 18,753;
all of MORGAN & FINNEGAN, L.L.P.

The undersigned attorney also appoints the following persons as associate registered agents to be likewise of record in this case:

Mark Bilak, Registration No. 47,423;
H. Daniel Schnurmann, Registration No. 35,791;
all of INTERNATIONAL BUSINESS MACHINES CORPORATION.

The applicant's undersigned attorney may be reached by telephone at (845) 894-3667.
All correspondence should continue to be directed to the below listed address.

Respectfully submitted,



Jay H. Anderson
Attorney for Applicant
Registration No. 38,371

INTERNATIONAL BUSINESS MACHINES CORPORATION
Intellectual Property Law Department
B/300-482
2070 Route 52
Hopewell Junction, New York 12533
Facsimile: (845) 892-6363

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS
BEING DEPOSITED WITH THE UNITED STATES POSTAL
SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE AD
DRESSED TO: COMMISSIONER OF PATENTS AND TRADE
MARKS, WASHINGTON, D.C. 20231, ON

5/7/04
DATE OF DEPOSIT
K. C. ING - MARS
NAME OF PERSON MAKING DEPOSIT
Karen Ing - Mars 5/7/04
SIGNATURE AND DATE